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AMENDMENTS TO THE CLAIMS

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This listing of claims will replace all prior listings of claims in the application.

1. (currently amended) A compound of the formula (I):

$$(R^5)_2N$$
OH
OH
OH
 R^2
 X
 R^4
(I)

wherein,

each R^1 , R^2 , and R^3 are independently alkyl substituted with aryl or heteroaryl, each of which is optionally substituted with 1-5 substituents selected from OR^6 , CN, NO_2 , NHR^7 , $N(R^7)_2$, halo, $CONHR^7$, $CON(R^7)_2$, CO_2R^8 , or C_{1-6} alkyl;

X is N, O, or S;

R⁴ is H, CON(R⁷)₂, CONHR⁷, CH₂OH, CH(OII)CH=CH₂, or C(O)NHCHR¹⁰CO₂II; cach R⁵ is independently H, alkyl, alkenyl, aryl, heteroaryl, acyl, P¹, or C(O)CHR¹⁰NH₂;

each R⁶ is independently H, alkyl, or P³;

cach R⁷ is independently H, alkyl, acyl, or P²;

each R⁸ is independently H, alkyl, aralkyl, or heteroaralkyl;

cach R¹⁰ is independently an amino acid side chain;

each P¹ and P² is independently a nitrogen protecting group; and

each P³ is independently an oxygen protecting group;

or pharmaceutically acceptable salts thereof.

(currently amended) The compound of claim 1, wherein:
 X is N or O;

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R¹ is alkyl substituted with aryl, which is optionally substituted with 1-5 substituents selected from OR⁶, CN, NO₂, NHR⁷, N(R⁷)₂, halo, CONHR⁷, CON(R⁷)₂, CO₂R⁸, or C₁₋₆ alkyl;

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R⁴ is II, CON(R⁷)₂, C(0)NHCHR¹⁰CO₂H, or CH₂OH; cach R⁵ is independently H, alkyl, acyl, P¹, or C(0)CHR¹⁰NH₂; each R⁶ is independently H, alkyl, or P³; each R⁷ is independently H, alkyl, acyl, or P²; each R⁸ is independently H, alkyl, aralkyl, or heteroaralkyl; each R¹⁰ is independently an amino acid side chain; each P¹ and P² is independently a nitrogen protecting group; and each P³ is independently an oxygen protecting group.

3. (currently amended) The compound of claim

1, wherein:

X is N or O;

R¹ is alkyl substituted with aryl, which is optionally substituted with 1-5 substituents selected from OR⁶, CN, NO₂, halo, or C₁₋₆ alkyl;

R⁴ is H, CONIIR⁷, or CH₂OII; each R⁵ is independently H or alkyl; each R⁶ is independently H or alkyl; R⁷ is H, alkyl, or P²; and P² is a nitrogen protecting group.

4. (currently amended) The compound of claim 1, wherein:

X is N or O;

 R^1 is alkyl substituted with aryl, which is optionally substituted with 1-5 substituents selected from OH or C_{1-6} alkyl; and

R₄ is II, CONH₂, or CH₂OH.

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5. (currently amended) The compound of claim 1, wherein:

X is N or O;

 R^1 is C_1 alkyl substituted with phenyl, which is substituted at the 2- and 6- positions with Me and is substituted at the 4- position with OH; and

R4 is H, CONH2, or CH2OH.

6. (currently amended) The compound of claim 1 having the formula (II):

$$(R^{9})_{n}$$
 $(R^{9})_{n}$
 $(R^{9})_{n}$
 $(R^{9})_{n}$
 $(R^{9})_{n}$
 $(R^{9})_{n}$
 $(R^{9})_{n}$

wherein,

X is N er O;

 R^4 is H, $CON(R^7)_2$, $CONHR^7$, CH_2OH , or $C(O)NHCHR^{10}CO_2H$;

each R5 is independently H, alkyl, acyl, P1, or C(O)CIIR10NH2;

each R6 is independently H, alkyl, or P3;

each R⁷ is independently H, alkyl, acyl, or I²;

each R8 is independently II, alkyl, aralkyl, or heteroaralkyl;

each R^9 is independently OR^6 , CN, NO_2 , NHR^7 , $N(R^7)_2$, halo, $CONHR^7$, $CON(R^7)_2$, CO_2R^8 , or C_{1-6} alkyl;

each R¹⁰ is independently an amino acid side chain;

each n is independently 0, 1, 2, 3, 4, or 5;

each P1 and P2 is independently a nitrogen protecting group; and

each P3 is independently an oxygen protecting group.

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7. (original) The compound of claim 6, wherein:
R⁴ is H, CON(R⁷)₂, CONHR⁷, or CH₂OH;
each R⁵ is independently H, alkyl, or acyl;
cach R⁶ is independently H or alkyl;
each R⁷ is independently H or alkyl;
cach R⁹ is independently OR⁶, CN, NO₂, halo, or C₁₋₆ alkyl; and
each n is independently 0 1, 2, or 3.

8. (original) The compound of claim 6, wherein:
P¹ is a BOC or Fmoc;
P² is a solid support; and
P³ is t-Bu, Bn, Me, or Ac.

9. (original) The compound of claim 6, wherein:
R⁴ is H, CON(R⁷)₂, CONHR⁷, or CII₂OH;
each R⁵ is independently II, alkyl, acyl, or P¹;
each R⁶ is independently II or P³;
each R⁷ is independently H or P²;
each R⁹ is independently OR⁶ or C₁₋₆ alkyl;
each n is independently 0, 1, or 2;
P¹ is a BOC;
P² is a solid support; and
P³ is t-Bu.

(original) The compound of claim 6, wherein:
 R⁴ is II, CONH₂, or CH₂OII;
 cach R⁵ is independently H, P¹, or C(O)CHR¹⁰NH₂;
 each R⁶ is H or alkyl

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each R⁹ is C_{1.6} alkyl or OR⁶;
each R¹⁰ is independently an amino acid side chain;
each n is independently 1, 2, or 3; and
P¹ is a nitrogen protecting group.

11. (currently amended) The compound of claim 1 that is formula (III):

$$(R^{\theta})_{\Omega} \xrightarrow{OH} OH$$

$$OH OH O$$

$$(III)$$

wherein,

X is Q-of N;

R9 is C1-6 alkyl; and

n is 2.

12. (currently amended) The compound of claim 1 that is formula (IV):

wherein X is N or O.

13. (currently amended) The compound of claim 1 having the formula (V):

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$$\begin{array}{c|c} & & & \\ & & & \\ & & \\ \hline \ddot{O}H & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\ &$$

wherein

X is N or O; and

R⁴ is CONH₂, H, or CH₂OH.

14. (original) The compound of claim 1 having the formula (VI):

$$(R^5)_2N$$
OH O R^3
OH O R^3
(VI)

wherein,

each R^1 , R^2 , and R^3 is independently alkyl substituted with aryl or heteroaryl, each of which is optionally substituted with 1-5 substituents selected from OR^6 , CN, NO_2 , NHR^7 , $N(R^7)_2$, halo, $CONHR^7$, $CON(R^7)_2$, CO_2R^8 , or C_{1-6} alkyl;

 R^4 is H, CON(R^7)₂, CONHR⁷, CH₂OH, or CH(OH)CH=CH₂, or C(O)NIICHR¹⁰CO₂H;

each R^5 is independently II, alkyl, alkene, aryl, heteroaryl, acyl, or P^1 , or $C(O) CIIR^{10} NH_2$;

each R6 is independently H, alkyl, or P3;

each R⁷ is independently H, alkyl, acyl, or P²;

each R8 is independently H, alkyl, aralkyl, or heteroaralkyl;

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each R¹⁰ is independently an amino acid side chain;
each P¹ and P² is independently a nitrogen protecting group; and
each P³ is independently an oxygen protecting group.

15. (original) The compound of claim 14, wherein:

each R^1 , R^2 , and R^3 is independently alkyl substituted with aryl, each of which is optionally substituted with 1-5 substituents selected from OR^6 , CN, NO_2 , halo, or $C_{1.6}$ alkyl;

R⁴ is H, CON(R⁷)₂, or CONHR⁷, or C(O)NHCHR¹⁰CO₂H; cach R⁵ is independently H, alkyl, acyl, P¹, or C(O)CHR¹⁰NH₂; and each R¹⁰ is independently an amino acid side chain.

16. (original) A method of making a compound of the formula (VIII):

comprising coupling compounds of the formulas (XI) and (XII)

$$P^{1} \underset{H}{\bigvee} \underset{OH}{\bigvee} \underset{OH}{\bigvee} \underset{O}{\bigvee} \underset{R^{13}}{\bigvee} \underset{H}{\bigvee} P^{2}$$
(XI)

using a ruthenium catalyst, to give a compound of formula (IX); and

reacting the compound of formula (IX) with a deprotecting agent to give a compound of the formula (VIII);

wherein,

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each R^1 , R^2 , and R^3 is independently alkyl substituted with arryl or heteroaryl, each of which is optionally substituted with 1-5 substituents selected from OR^6 , CN, NO_2 , NHR^7 , $N(R^7)_2$, halo, $CONHR^7$, $CON(R^7)_2$, CO_2R^8 , or C_{1-6} alkyl;

each R6 is independently H, alkyl, or P3;

each R⁷ is independently H, alkyl, acyl, or P⁴;

each R8 is independently H, alkyl, aralkyl, or heteroaralkyl;

each R^{11} , R^{12} , and R^{13} is independently alkyl substituted with aryl or heteroaryl, each of which is optionally substituted with 1-5 substituents selected from OR^{16} , CN, NO_2 , NHR^{17} , $N(R^{17})_2$, halo, $CONHR^{17}$, $CON(R^{17})_2$, CO_2R^{18} , or C_{1-6} alkyl;

each R16 is independently H, alkyl, or P3;

each R¹⁷ is independently II, alkyl, acyl, or P⁴;

each R18 is independently H, alkyl, aralkyl, or heteroaralkyl;

each P¹, P², and P⁴ is independently a nitrogen protecting group; and each P³ is independently an oxygen protecting group.

17. (original) A method of making a compound of the formula (XVI):

comprising coupling compounds of the formulas (XI) and (XIII)

by first reacting the free alcohols with a silicon protecting group, and then treating the resulting compound with a ruthenium catalyst, giving a compound of the formula (VII);

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reacting the compound of formula (VII) under pH conditions sufficient to remove acid labile protecting groups, if any;

treating the resulting product with peroxide and base under conditions sufficient to hydrolyze the thioester; and

coupling the resulting product with a solid phase peptide, giving a compound of the formula (XVI);

wherein,

each R^1 , R^2 , and R^3 is independently alkyl substituted with aryl or heteroaryl, each of which is optionally substituted with 1-5 substituents selected from OR^6 , CN, NO_2 , NHR^7 , $N(R^7)_2$, halo, $CONHR^7$, $CON(R^7)_2$, CO_2R^8 , or C_{1-6} alkyl;

each R6 is independently H, alkyl, or P3;

each R⁷ is independently H, alkyl, acyl, or P⁴;

each R8 is independently H, alkyl, aralkyl, or heteroaralkyl;

each R^{11} and R^{12} is independently alkyl substituted with aryl or heteroaryl, each of which is optionally substituted with 1-5 substituents selected from OR^{16} , CN, NO_2 , NHR^{17} , $N(R^{17})_2$, halo, $CONHR^{17}$, $CON(R^{17})_2$ CO_2R^{18} , or $C_{1.6}$ alkyl;

each R¹⁶ is independently H, alkyl, or P³;

each R¹⁷ is independently H, alkyl, acyl, or P⁴;

each R¹⁸ is independently II, alkyl, aralkyl, or heteroaralkyl;

each P1 and P4 is independently a nitrogen protecting group; and

each P3 is independently an oxygen protecting group; and

P⁵ is a sulfur protecting group.

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18. (currently amended) A method of making a compound of the formula (X1V):

$$H_2N$$
 OH
 OH
 OH
 O
 R^2
 X
 R^4
 (XIV)

comprising coupling compounds of formulas (XI) and (XIII),

with a ruthenium catalyst;

treating the resulting compound with peroxide and base under conditions sufficient to hydrolyze the thioester;

amidation or esterification of the resulting acid; and

treatment of the resulting compound with a deprotecting agent sufficient to remove protecting groups, giving a compound of the formula (XIV);

wherein,

each R^1 , R^2 , and R^3 is independently alkyl substituted with aryl or heteroaryl, each of which is optionally substituted with 1-5 substituents selected from OR^6 , CN, NO_2 , $NIIR^7$, $N(R^7)_2$, halo, $CONHR^7$, $CON(R^7)_2$, CO_2R^8 , or $C_{1.6}$ alkyl;

X is N or O;

R⁴ is H, CON(R⁷)₂, CONHR⁷, CH₂OH, or CH(OH)CH=CH₂;

each R6 is independently H, alkyl, or P3;

each R⁷ is independently H, alkyl, acyl, or P⁴;

cach R8 is independently H, alkyl, aralkyl, or heteroaralkyl;

each R11 and R12 are independently alkyl substituted with aryl or heteroaryl, each of

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which is optionally substituted with 1-5 substituents selected from OR¹⁶, CN, NO₂, NHR¹⁷, N(R¹⁷)₂, halo, CONIIR¹⁷, CON(R¹⁷)₂, CO₂R¹⁸, or C₁₋₆ alkyl; cach R¹⁶ is independently H, alkyl, or P³; cach R¹⁷ is independently II, alkyl, acyl, or P⁴; each R¹⁸ is independently H, alkyl, aralkyl, or heteroaralkyl; each P¹ and P⁴ is independently a nitrogen protecting group; each P³ is independently an oxygen protecting group; and P⁵ is a sulfur protecting group.

19. (original) A method of making a compound of formula (XVII):

comprising coupling compounds of formulas (XI) and (XIII)

with a ruthenium catalyst;

treating the resulting compound with peroxide and base under conditions sufficient to hydrolyze the thioester; and

reacting the free hydroxyls with an oxygen protecting group to give a compound of formula (XVIII)

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coupling the compound of formula (XVIII) with an alcohol of formula R¹³(CHOH)CHOR¹⁶; and

treating the resulting compound with a deprotecting agent sufficient to remove protecting groups to give a compound of formula (XVII);

wherein,

each R^1 , R^2 , and R^3 is independently alkyl substituted with aryl or heteroaryl, each of which is optionally substituted with 1-5 substituents selected from OR^6 , CN, NO_2 , $NIIR^7$, $N(R^7)_2$, halo, $CONHR^7$, $CON(R^7)_2$, CO_2R^8 , or C_{1-6} alkyl;

each R6 is independently II, alkyl, or P3;

each R⁷ is independently H, alkyl, acyl, or P⁴;

each R8 is independently H, alkyl, aralkyl, or heteroaralkyl;

each R^{11} , R^{12} , and R^{13} is independently alkyl substituted with aryl or heteroaryl, each of which is optionally substituted with 1-5 substituents selected from OR^{16} , CN, NO_2 , $NIIR^{17}$, $N(R^{17})_2$ halo, $CONIIR^{17}$, $CON(R^{17})_2$ CO_2R^{18} , or C_{1-6} alkyl;

each R¹⁶ is independently H, alkyl, or P³;

each R¹⁷ is independently H, alkyl, acyl, or P⁴;

each R18 is independently H, alkyl, aralkyl, or heteroaralkyl;

each P1 and P4 is independently a nitrogen protecting group;

each P3 is independently an oxygen protecting group; and

P⁵ is a sulfur protecting group.

- 20. (original) A composition comprising a compound of formula (I) in claim 1 and a pharmaceutically acceptable carrier.
- 21. (currently amended) A compound of formula (XIX):

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wherein,

each R¹, R², and R³ is independently alkyl substituted with aryl or heteroaryl, each of which is optionally substituted with 1-5 substituents selected from OR⁶, CN, NO₂, NIIR⁷, N(R⁷)₂ halo, CONHR⁷, CON(R⁷)₂, CO₂R⁸, or C₁₋₆ alkyl;

X is N, O, or S;

R⁴ is H, CON(R⁷)₂, CONHR⁷, CH₂OH, CH(OH)CH=CH₂, or C(O)NHCHR¹⁰CO₂H; each R⁵ is independently II, alkyl, alkenyl, aryl, heteroaryl, acyl, P¹, or C(O)CHR¹⁰NH₂; each R⁶ is independently II, alkyl, or P³; each R⁷ is independently H, alkyl, acyl, or P²; each R⁸ is independently H, alkyl, aralkyl, or heteroaralkyl; each R¹⁰ is independently an amino acid side chain; cach P¹ and P² is independently a nitrogen protecting group; each P³ is independently an oxygen protecting group; and or pharmaccutically acceptable salts thereof.

22. (currently amended) The compound of claim 21 wherein:

X is N or-O;

 R^1 is alkyl substituted with aryl, which is optionally substituted with 1-5 substituents selected from OR^6 , CN, NO_2 , $NIIR^7$, $N(R^7)_2$, halo, $CONIIR^7$, $CON(R^7)_2$, CO_2R^8 , or $C_{1.6}$ alkyl;

R⁴ is H, CON(R⁷)₂, C(O)NHCHR¹⁰CO₂H, or CH₂OH; and each R⁵ is independently H, alkyl, acyl, P¹, or C(O)CHR¹⁰NH₂; each R¹⁰ is independently an amino acid side chain.

23. (currently amended) The compound of claim

21, wherein:

X is N er-O;

R¹ is alkyl substituted with aryl, which is optionally substituted with 1-5 substituents selected from OR⁶, CN, NO₂, halo, or C₁₋₆ alkyl;

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R⁴ is H, CONHR⁷, or CH₂OH;

each R⁵ is independently H or alkyl;

each R6 is independently H or alkyl; and

 R^7 is H, alkyl, or P^2 .

24. (currently amended) The compound of claim 21, wherein:

X is N or O;

 R^1 is alkyl substituted with aryl, which is optionally substituted with 1-5 substituents selected from OII or $C_{1\cdot6}$ alkyl; and

R4 is II, CONH2, or CH2OH.

25. (currently amended) The compound of claim 21, wherein:

X is Nor-O;

R¹ is C₁ alkyl substituted with phenyl, which is substituted at the 2- and 6- positions with Me and is substituted at the 4- position with OH; and

R4 is H, CONII2, or CH2OII.

26. (original) The compound of claim 21, wherein

X is N;

 R^{1} is methyl substituted with phenyl, which is substituted at the 4- position with OII; and R^{4} is CONH₂.

27. (currently amended) The compound of claim 21 having the formula (XX):

$$(R^5)_2N \xrightarrow{\text{OH}} \text{OH} \xrightarrow{\text{OH}} X \xrightarrow{\text{R}^4} (R_9)n$$

$$(XX)$$

wherein,

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X is N er-O;

R<sup>4</sup> is II, CON(R<sup>7</sup>)<sub>2</sub>, CONHR<sup>7</sup>, CH<sub>2</sub>OH, or C(O)NHCHR<sup>10</sup>CO<sub>2</sub>II;

each R<sup>5</sup> is independently H, alkyl, acyl, P<sup>1</sup>, or C(O)CIIR<sup>10</sup>NH<sub>2</sub>;

cach R<sup>6</sup> is independently II, alkyl, or P<sup>3</sup>;

each R<sup>7</sup> is independently H, alkyl, acyl; or P<sup>2</sup>;

each R<sup>8</sup> is independently H, alkyl, aralkyl, or heteroaralkyl;

cach R<sup>9</sup> is independently OR<sup>6</sup>, CN, NO<sub>2</sub>, NHR<sup>7</sup>, N(R<sup>7</sup>)<sub>2</sub>, halo, CONHR<sup>7</sup>, CON(R<sup>7</sup>)<sub>2</sub>,

CO<sub>2</sub>R<sup>8</sup>, or C<sub>1.6</sub> alkyl;

each R<sup>10</sup> is independently an amino acid side chain;

cach n is independently 0, 1, 2, 3, 4, or 5;

each P<sup>1</sup> and I<sup>2</sup> is independently a nitrogen protecting group; and

each P<sup>3</sup> is independently an oxygen protecting group.
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28. (original) The compound of claim 27, wherein:

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R<sup>4</sup> is H, CON(R<sup>7</sup>)<sub>2</sub>, CONHR<sup>7</sup>, or CH<sub>2</sub>OII;
each R<sup>5</sup> is independently H, alkyl, or acyl;
each R<sup>6</sup> is independently H or alkyl;
each R<sup>7</sup> is independently H or alkyl;
each R<sup>9</sup> is independently OR<sup>6</sup>, CN, NO<sub>2</sub>, halo, or C<sub>1-6</sub> alkyl; and
each n is independently O 1, 2, or 3.
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29. (original) The compound of claim 27, wherein:

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R<sup>4</sup> is II, CON(R<sup>7</sup>)<sub>2</sub>, CONHR<sup>7</sup>, or CH<sub>2</sub>OII;
each R<sup>5</sup> is independently II, alkyl, acyl, or P<sup>1</sup>;
each R<sup>6</sup> is independently H or P<sup>3</sup>;
each R<sup>7</sup> is independently H or P<sup>2</sup>;
each R<sup>9</sup> is independently OR<sup>6</sup> or C<sub>1-6</sub> alkyl;
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each n is independently 0 or 1;

P1 is a BOC:

P2 is a solid support; and

 P^3 is t-Bu.

30. (original) The compound of claim 27, wherein:

R⁴ is H, CONH₂, or CH₂OH;

each R^5 is independently H, P^1 , or C(O)CHR 10 NH₂;

each R6 is H or alkyl

each R9 is C1-6 alkyl or OR6;

each R¹⁰ is independently an amino acid side chain;

each n is independently 1, 2, or 3; and

P is a nitrogen protecting group.

31. (currently amended) The compound of claim 21 having the formula (XXI):

HO
$$(XXI)$$

wherein,

X is O or N;

R⁴ is H, CONH₂, or CH₂OH;

R9 is C1-6 alkyl; and

n is 2.

32. (original) The compound of claim 21 having the formula (XXII):

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wherein

R2 is C1-6 alkyl; and

n is 0, 1, or 2.

33. (original) A method of making a compound of formula (XXIII):

comprising coupling compounds of formulas (XXV) and (XIII)

$$P^{1}$$
 N
 H
 OH
 OH
 O
 OH
 O
 (XXV)
 $(XIII)$

using a ruthenium catalyst, giving a compound of the formula (XXIV);

treating the resulting product with peroxide and base under conditions sufficient to hydrolyze the thioester;

coupling the resulting product with a solid phase peptide; and

treating the resulting compound with a deprotecting agent, giving a compound of the formula (XXIII);

wherein,

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each R^1 , R^2 , and R^3 is independently alkyl substituted with aryl or heteroaryl, each of which is optionally substituted with 1-5 substituents selected from OR^6 , CN, NO_2 , NHR^7 , $N(R^7)_2$, halo, $CONIR^7$, $CON(R^7)_2$, CO_2R^8 , or C_{1-6} alkyl;

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each R⁶ is independently II, alkyl, or P³;
each R⁷ is independently II, alkyl, acyl, or P⁴;
each R⁸ is independently II, alkyl, aralkyl, or heteroaralkyl;

each R¹¹ and R¹² is independently alkyl substituted with aryl or heteroaryl, each of which is optionally substituted with 1-5 substituents selected from OR¹⁶, CN, NO₂, NHR¹⁷, N(R¹⁷)₂, halo, CONHR¹⁷, CON(R¹⁷)₂, CO₂R¹⁸, or C₁₋₆ alkyl;

each R¹⁶ is independently H, alkyl, or P³;
each R¹⁷ is independently H, alkyl, acyl, or P⁴;
each R¹⁸ is independently II, alkyl, aralkyl, or heteroaralkyl;
each P¹ and P⁴ is independently a nitrogen protecting group;
each P³ is independently an oxygen protecting group; and
P⁵ is a sulfur protecting group.

- 34. (original) A composition comprising a compound of formula (XIX) in claim 21 or pharmaceutically acceptable salts thereof and a pharmaceutically acceptable carrier.
- 35. (currently amended) A method of treating a mu opioid receptor (MOR) mediated disorder that is pain in a subject comprising administering a compound of formula (I) in claim 1 or a compound of formula (XIX) in claim 21 or pharmaceutically acceptable salts thereof.
- 36. (currently amended) A method of treating a mu opioid receptor (MOR) mediated disorder that is pain in a subject comprising administering a composition comprising a compound of formula (I) in claim 1 or a compound of formula (XIX) in claim 21 or pharmaceutically acceptable salts thereof.
- 37. (original) A method of treating pain in a subject, comprising administering to the subject a compound of formula (1) in claim 1 or of formula (XIX) in claim 21 or pharmaceutically acceptable salts thereof.

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38. (cancelled)